



14.4 VOLT CORDLESS COMBO PACK

Model 40056

ASSEMBLY AND OPERATING INSTRUCTIONS



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For technical questions and replacement parts, please call 1-800-444-3353



Specifications

Drill	0 ~ 550 RPM 3/8 inch keyless chuck Variable speed Switch Forward / Reverse Switch 6 torque settings
Circular Saw	2400 RPM Saw Blade Size 5-3/8" 1-1/2 inch cut depth at 90 degrees 1-1/4 inch cut depth at 45 degrees Bevel: 50 degree 200 output watts
Reciprocating Saw	0-2800 SPM Stroke: 7/8 inch
Flashlight	90 degree swivel head
Batteries	Two 14.4 VDC batteries provided
Charger	120 VAC (input) 3 to 5 hour charging time, 1.3 amp/hour UL approved
Accessories	Molded case for all items Two reciprocating saw blades

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using tools, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using any of these tools!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Do not force tool.** It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool capacity. **Caution:** Always keep guards in place.



6. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
7. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
8. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
9. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
10. **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician. The handles must be kept clean, dry, and free from oil and grease at all times.
11. **Disconnect power.** Unplug charger when not in use.
12. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or work surface before turning on.
13. **Avoid unintentional starting.** Be sure the switch is in the Off position when not in use. Do not carry any tool with your finger on the trigger.
14. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
15. **Take caution as some woods contain preservatives such as copper chromium arsenate (CCA) which can be toxic.** When cutting these materials extra care should be taken to avoid inhalation and minimize skin contact.
16. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.
17. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
18. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
19. **Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.



Note: Performance of these tools (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking, check to make sure that all the parts are included. Refer to the Specifications on page 2. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

Battery Precautions

1. Read all instructions and warnings on the battery before charging the battery.
2. To avoid accidents, charge the supplied battery only. Do not use a different charger with this battery.
3. Do not expose the battery to rain or wet conditions.
4. To avoid damage of cable and plug, never pull the cable to disconnect the charger.
5. Do not use the charger if the cable or plug are damaged.
6. Repairs should be carried out by a qualified technician only.
7. Do not touch the battery poles with any conductive source.
8. Do not store the battery in a box with other metal objects.
9. Do not throw the battery in a fire. Ni-Cd Battery must be recycled or disposed of properly, in accord with all laws.

Note: Always switch to a fresh battery when tool performance begins to diminish. Severe heat is most destructive to a battery; the more heat generated, the faster the battery loses power. A battery that gets too hot can be permanently damaged. Never over-discharge a battery by using the tool even after tool performance is decreasing. Never attempt to discharge a tool's battery by continuing to pull the tool trigger. **When tool performance begins to diminish, stop the tool, re-charge the battery and use the fresh battery for optimal performance.**

Charging Battery

The batteries do not come charged from the factory. Charge before using. Charging room temperature: 50°F - 104°F.

1. Insert the battery into the Charger (#21). The battery can only insert one way.
2. Plug the line cord into an electrical outlet.
3. Verify that the red charging indicator light comes on. If it does not come on, check the power connection or try a different wall outlet.
4. Charge the battery initially for no more than 5 hours continuously. Chargers should not be left plugged in or charging for more than 5 hours. Subsequent charges should only take 3 hours. Allow charger to cool down before charging another battery.
5. After charging, unplug the Charger from the electrical outlet.
6. Insert the battery into the tool by pressing on the two side tabs while inserting.

Note: the operation time of a new battery will ramp up as it is properly used and recharged.



Drill Operation

1. Insert a drill or screw bit into the Chuck (8). Securely tighten.
Turn the chuck counterclockwise to open, and clockwise to close while holding on to the chuck sleeve. Use 3/8 inch bits or smaller to avoid damage to gears and motor.
2. Set the desired drill torque by turning the Torque Selector to setting 1 to 6.
The higher the number, the more the torque. Use # 6 for drilling, and the others for driving. Do this when the drill is off.
3. Set the desired drill rotation by pressing the Rotation Switch (7) for drilling or driving; Press Reverse for removing screws. Press Forward for drilling. Do this when the drill is off.
4. Press the Trigger Switch (5) in to turn the drill on.
The harder you press, the faster the rotation.



The item numbers (in brackets) can be found on the Drill Assembly and Drill Parts List.

Circular Saw Operation

Install saw blade. Prepare and secure the material to be cut before turning on saw. Battery should have a full charge before using saw. Refer to illustrations that follow. Remove battery before making any adjustments.

Warning: Do not hold tool by the handle while making adjustments as your fingers may touch the Switch and Safe buttons and start the saw.

Installing Cutting Blade

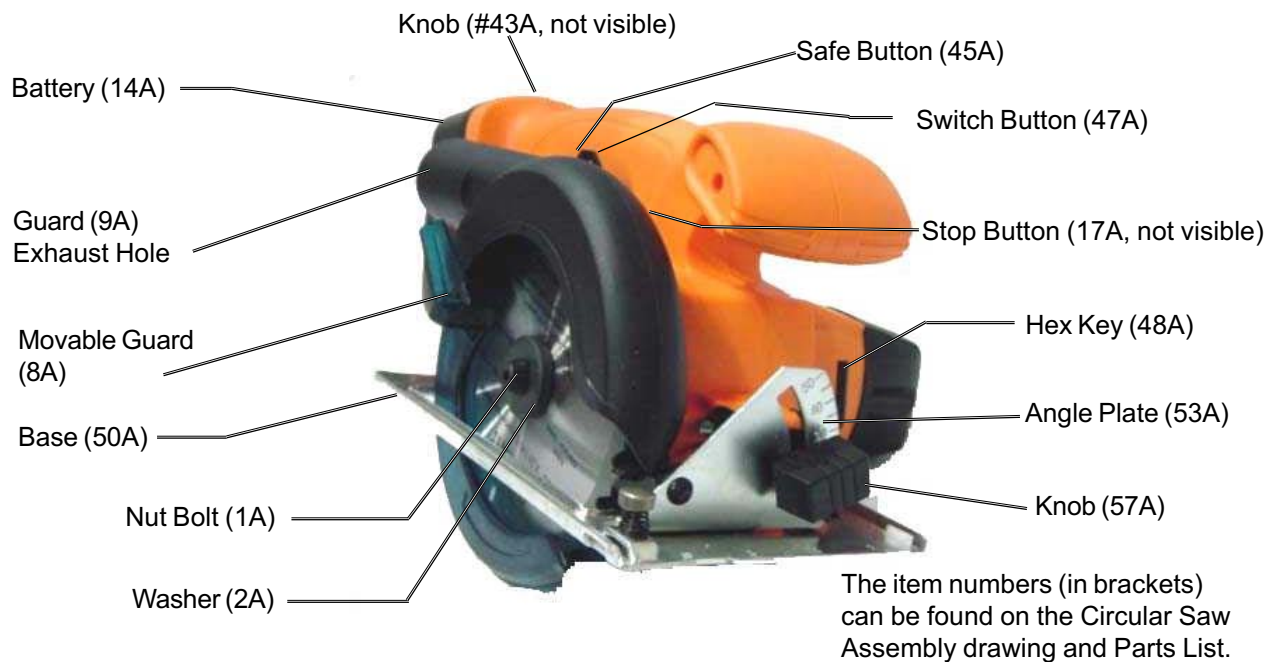
1. Remove battery.
Disregard these steps if the saw blade is already installed.
2. Press on the stop button (17A) located on top of the saw to keep the saw blade from moving while turning the nut bolt.
3. Using the hex key (48A), loosen and remove nut bolt (1A) and washer (2A).
4. Rotate movable guard (8A) clockwise to allow entry of blade.



5. Insert saw blade through the base with teeth facing forward (and up) until the center holes of the saw blade and motor adapter (5A) align. (Notice the arrow on the movable guard and the arrow on the saw blade, they should be pointing in the same direction.)
6. Replace washer (2A) and nut bolt (1). Tighten with hex key (48A) while pressing on the stop button (1A7). Verify stop button is in the up (unlocked) position.
7. Replace key to its storage hole in the housing of the saw.

Adjusting The Saw Prior to Cutting

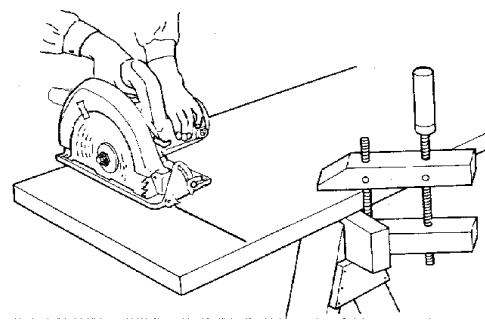
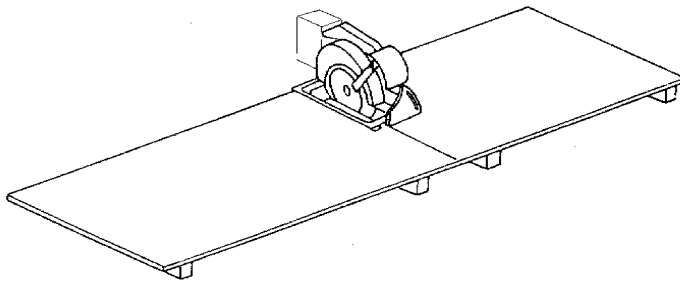
1. To adjust the **angle** of blade up to 50°, loosen knob (57A) and move base plate (50A) down, observing the degrees indicated on the angle plate (53A). Tighten knob (57A).
2. To adjust the **depth** of the cut, loosen knob (43A, not visible) located behind motor housing, and move base plate (50A) down while observing the amount of saw blade exposed under base plate. Tight knob (43A).



Prepare Material Before Cutting

Refer to the illustrations on the next page.

1. Support large panels to be cut to minimize risk of blade pinching and saw kickback.
2. Use a rip fence or secured straight edge guide when ripping material.
3. Securely clamp material to be cut to work bench.
4. Make sure saw does not cut into supports or workbench.
5. Use the appropriate type of blade for the material you are cutting.



Cutting

Warning: this tool can cause serious injury if not used properly. Read this entire manual before using. **Note:** The moveable Guard (#8A) must be in place at all times.

Note: verify that saw blade is securely tightened and both angle and height adjusting knobs are tight.

1. Secure rip fence or straight edge to the material to guide the saw on a straight path.
2. Place the saw base (50A) on material to be cut. Align the front notch (right edge aligns with saw blade) on the cut line.
3. Pull the rear lock switch (safe button 45A) back with the middle finger and squeeze the switch button (47A) with the index finger. Do this before the saw blade touches the material.
4. With the saw at full speed, move the saw slowly forward to complete the cut.
5. When the cut is complete, release the power switch button (47A). Do not set the saw down until the blade stops turning.

Reciprocating Saw Operation

For this procedure, it may be helpful to look at the Reciprocating Saw assembly diagram at the end of this manual.

1. Remove the Battery from the housing.
2. Install the Saw Blade by passing it through the Adjustable Pad (7B) and into the Carrier (32B), between the Washer (2B) and the Carrier (32B), with teeth facing downward. Tighten the hex bolt with the hex wrench to lock the blade in place.



The item numbers (in brackets) can be found on the Reciprocating Saw Assembly drawing and Parts List.



Caution: Avoid possible injuries while carrying the reciprocating saw. Lock the Trigger Switch in the off position by pressing in on the Trigger Switch Lock (14B).

3. With the blade installed, press the Switch Lock to lock the Trigger Switch. Squeeze the Trigger Switch. It should not move.
4. After the Battery is charged, insert into the housing.
5. To turn the saw on, press the Switch Lock in the opposite direction, then squeeze the Trigger Switch.
6. Prepare and secure the material to be cut.
Use the correct blade for the material being cut. Fine tooth blades are generally used for cutting metal. Blades with larger teeth are generally used for cutting wood. Properly support long items being cut so as to not pinch the blade, preventing kickback and bending the blade.
7. To begin cutting, firmly hold the saw handle with one hand, and the housing with the other hand. Squeeze the Trigger Switch to start the cutting blade and rest the Adjustable Pad on the material to be cut. Slowly lower the moving blade onto the material.
8. When the cut is complete, press in on the Switch Lock.

Caution: Avoid possible injuries, always remove the battery before making any adjustments or changing blades.

Flashlight Operation

1. Insert the charged Battery (27C) into the Flashlight housing.
2. Press the On/Off Switch (23C) to turn on.
3. Push the Flashlight head to the desired angle.
4. To replace the light bulb, unscrew the Lamp Cover Ring (3C) and twist out the (18 V) Bulb (5C).



The item numbers (in brackets) can be found on the Flashlight Assembly drawing and Parts List.

Maintenance

1. Use only sharp bits and blades with these tools.
2. Regularly inspect all mounting screws and knobs for tightness.
3. Keep safety guards in good working order.
4. Keep motor air vents clean of dust and debris. Vacuum periodically.
5. Clean tools with a damp cloth and light detergent. Do not use solvents.
6. Regularly charge batteries, whether used or not.



7. Store these tools in a clean and dry area. Avoid storing in high temperature areas.

WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement or other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code 25249.5, et seq.)

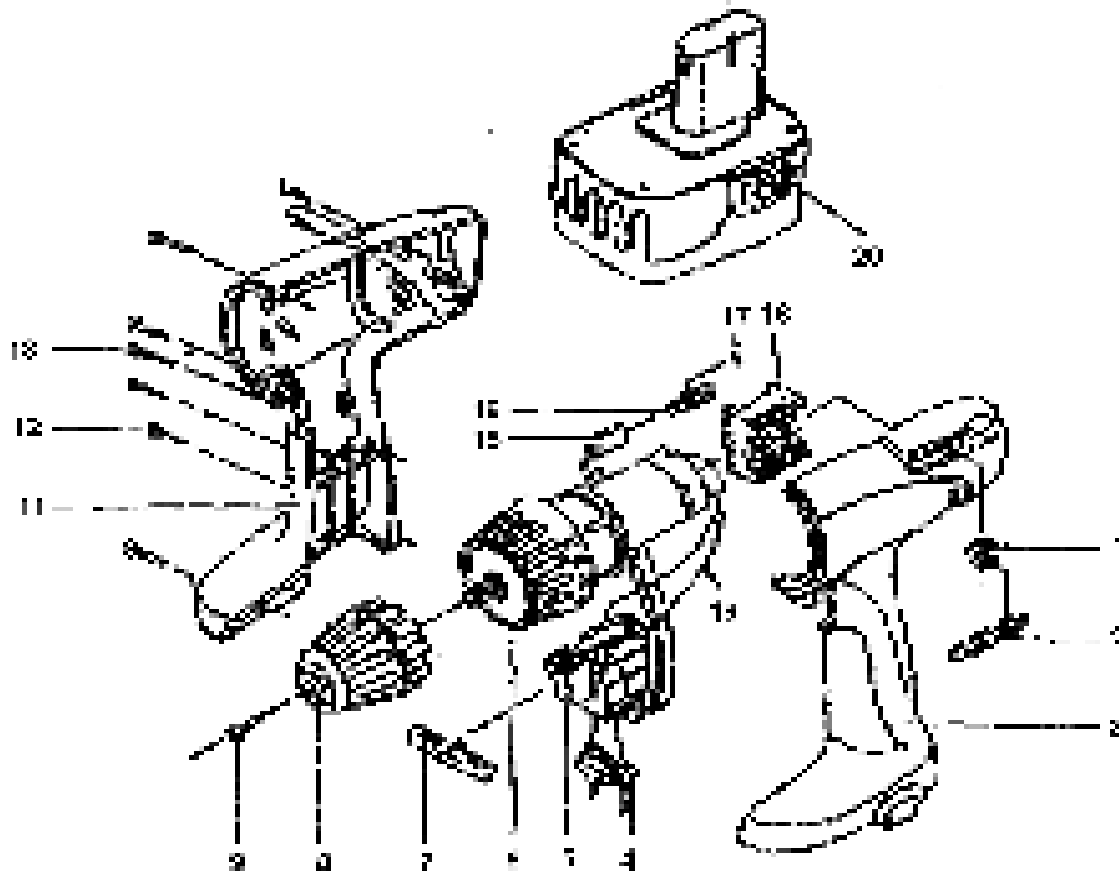
Drill Parts List

ITEM	DESCRIPTION
1	Screwdriver Bit Clamp
2	Screwdriver Bit, double-head
3	Left Case
4	Battery Clamp
5	Trigger Switch
6	Gear Box
7	Rotation Switch
8	Chuck
9	Screw , M 5x25
11	Right Case
12	Screw , ST 2.9x15
13	Screw , ST 2.9x18
15	Connector
16	Vmos Bulb
17	Screw , M 3x8
18	Radiator
19	Wire
20	Battery
21	Battery Charger

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



Drill Assembly Drawing



Battery Charger (#21)

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.





Circular Saw Parts List

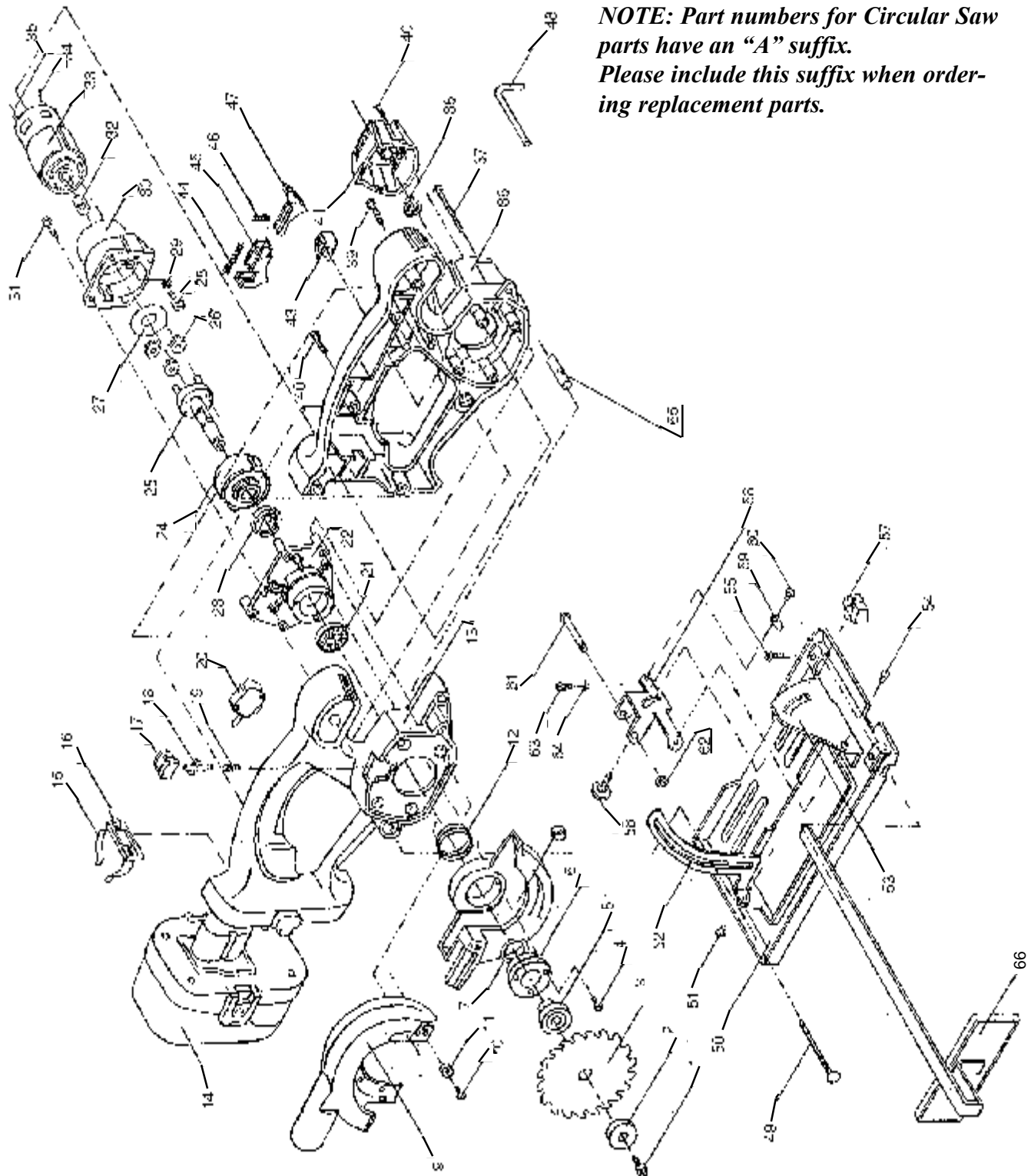
Item #	Description	Qty
1 A	Nut Bolt	1
2 A	Washer	1
3 A	Saw Blade (not included)	1
4 A	Stud Screw M3*8	3
5 A	Adapter	1
6 A	Flange	1
7 A	Washer	1
8 A	Movable Guard	1
9 A	Guard (protection cover)	1
10A	Stud Screw M4*10	1
11A	Collar	1
12A	Torgue Force Spring	1
13A	Right Case	1
14A	Battery TYD-B114	1
15A	Battery Clip	1
16A	Copper Wire (blue)	1
17A	Stop Button	1
18A	Stop Button Pillar	1
19A	Stop Button Spring	1
20A	Switch kw-v15	1
21A	Ball Bearing 180100	1
22A	Gearbox Case	1
23A	Stop Dag	1
24A	Gear and Bearing Box	1
25A	Main Shaft and Planet Wheel Axle	1
26A	Planet Gear	3
27A	Spacer	1
28A	Stud Screw M4*8	2
29A	Spacer 4	2
30A	Gear Box	1
31A	Stud Screw M4*8	2
32A	Motor Gear	1
33A	Motor	1

Item #	Description	Qty
34A	Copper Wire (red)	1
35A	Copper Wire (black)	1
36A	Left Case	1
37A	Stud Screw M4*50	4
38A	Motor Base	1
39A	Screw ST2.9*25	2
40A	Screw ST2.9*20	3
41A	Back Case	1
42A	Screw ST2.9*12	2
43A	Knob	1
44A	Spring	1
45A	Safe Button	1
46A	Spring	1
47A	Switch Button	1
48A	Hex Key 1/8 inch	1
49A	Bolt M6*80	1
50A	Base	1
51A	Rivel 5	1
52A	Guide Bar	1
53A	Angle Plate	1
54A	Rivel 5	1
55A	Screw M4*8	2
56A	Screw M6*12	1
57A	Knob	1
58A	Connecting Bar	1
59A	Needle	1
60A	Screw M3*5	1
61A	Axle	1
62A	Nut M5	1
63A	Screw M4*10	1
64A	Nut M4	1
65A	Rubber Post	1
66A	Rip Fence (not included)	1

***NOTE: Part numbers for Circular Saw parts have an “A” suffix.
Please include this suffix when ordering replacement parts.***



Circular Saw Assembly Drawing



Reciprocating Saw Parts List

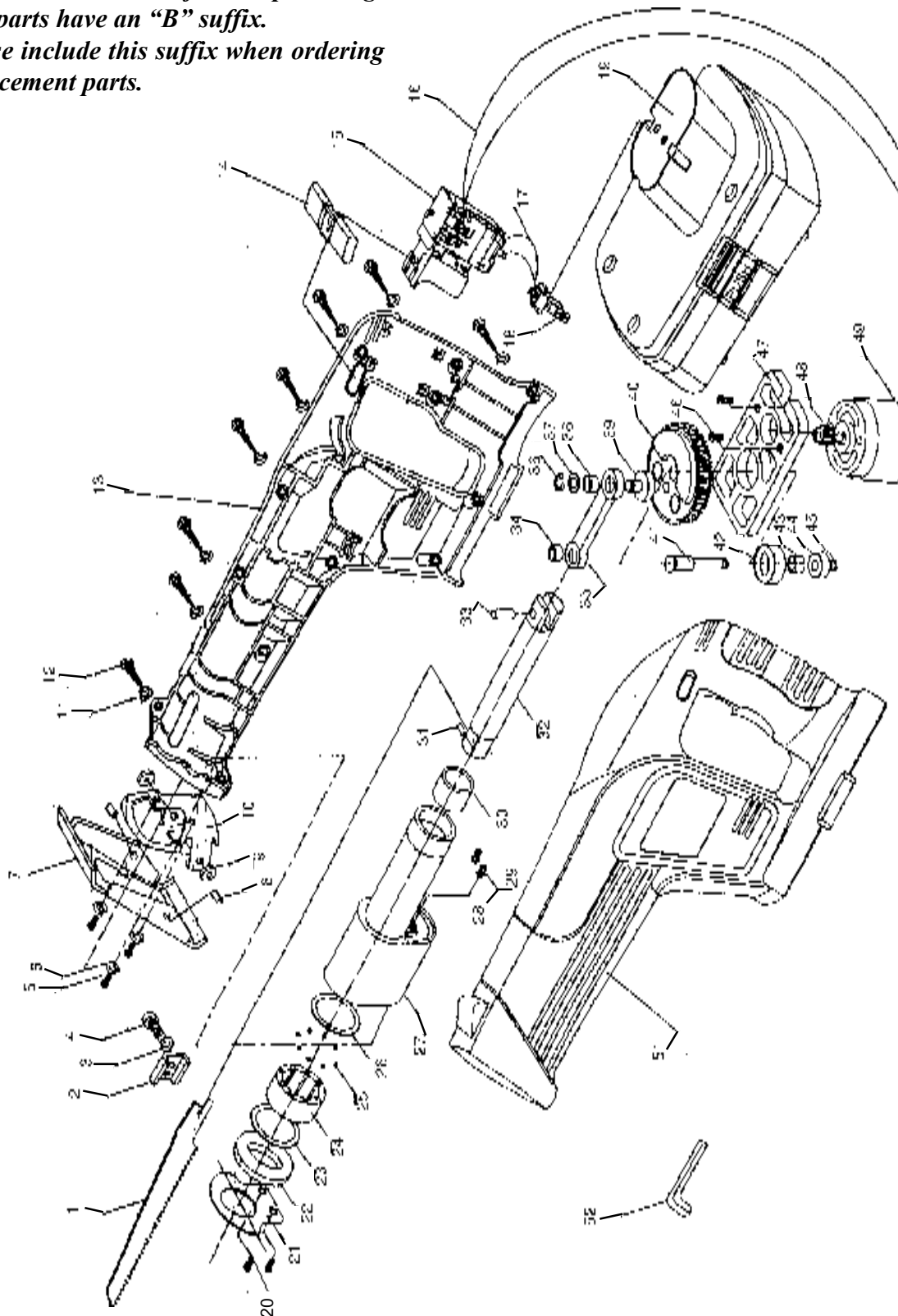
ITEM	DESCRIPTION	QTY	ITEM	DESCRIPTION	QTY
1B	Saw	1	27B	Slide Case	1
2B	Washer	1	28B	Snap Washer, 4	2
3B	Snap Washer, 5	1	29B	Nut, M4	2
4B	Stud Screw, M5x12	1	30B	Bearing	1
5B	Screw, M4x14	3	31B	Pin, A3x9	1
6B	Snap Washer, 4	3	32B	Carrier	1
7B	Adjustable Pad	1	33B	Carrier Pin	1
8B	Pin, A5x14	2	34B	Axle Sleeve	1
9B	Flange	2	35B	Connecting Bar	1
11B	Snap Washer, 4	13	36B	Snap Washer, 6	1
12B	Screw, ST 4.2x22-C-H	13	37B	Washer	1
13B	Right Case	1	38B	Axle Sleeve	1
14B	Switch Button Lock	1	39B	Small Axle	1
15B	Trigger Switch	1	40B	Big Gear	1
16B	Wire	1	41B	Main Shaft	1
17B	Wire	1	42B	Bearing, 80019	1
18B	Battery Clip	1	43B	Axle Sleeve	1
19B	Battery	1	44B	Bearing, 1000097	1
20B	Screw, M3x10	2	45B	Snap Washer, 6	1
21B	Washer	1	46B	Screw, M4x9	2
22B	Sealing Washer	1	47B	Transmission	1
23B	Washer	1		Supporting Pack	
24B	Ball Bearing Case	1	48B	Gear Box	1
25B	Ball, 3	8	49B	Motor	1
26B	Washer	1	50B	Shrink Tube	2
			51B	Left Case	1
			52B	Hex Key, 1.9 inch	1

***NOTE: Part numbers for Reciprocating Saw parts have an “B” suffix.
Please include this suffix when ordering replacement parts.***



Reciprocating Saw Assembly Drawing

NOTE: Part numbers for Reciprocating Saw parts have an "B" suffix.
Please include this suffix when ordering replacement parts.





Flashlight Parts List

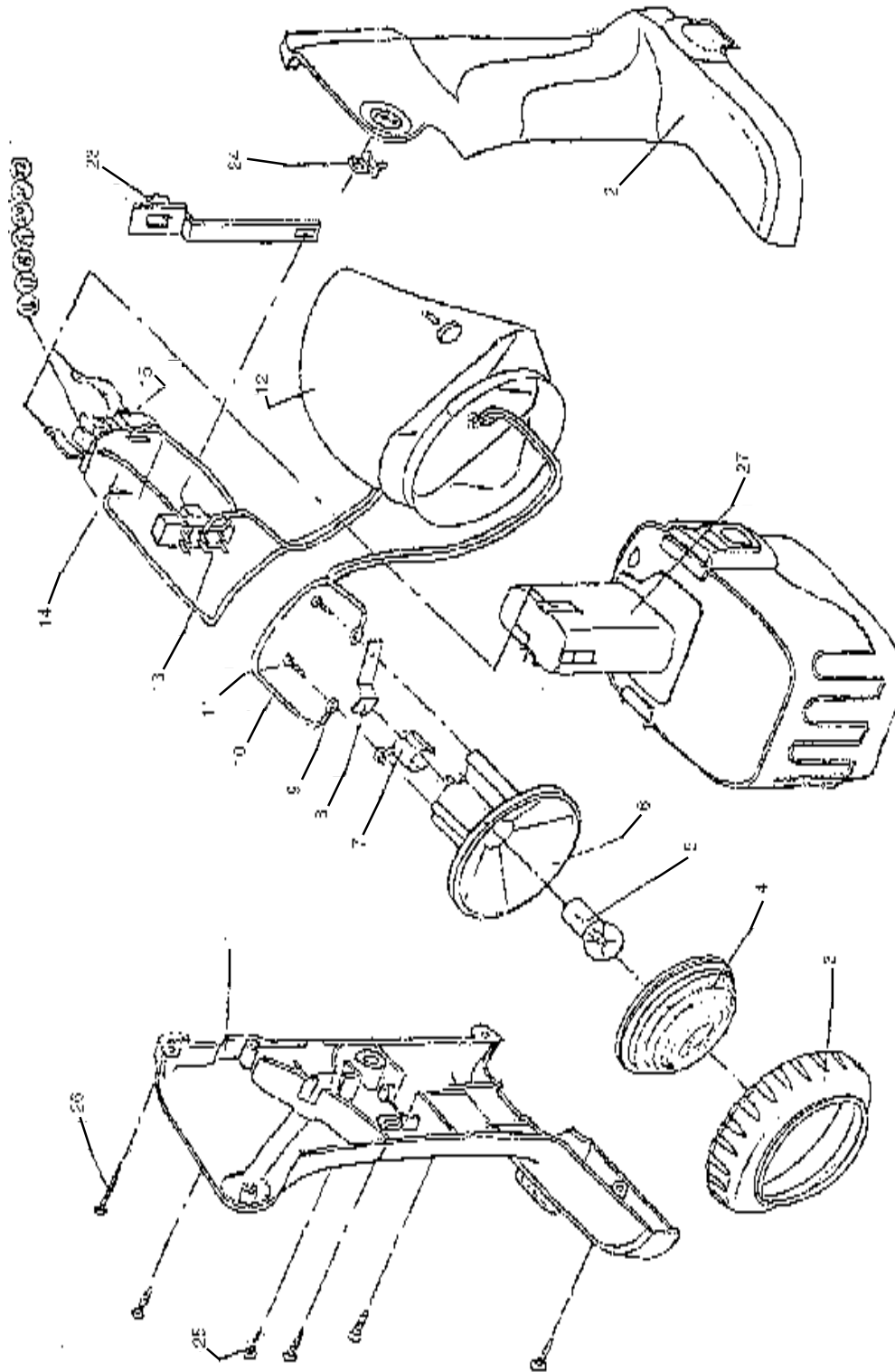
ITEM	DESCRIPTION
1 C	Right Case
2 C	Left Case
3 C	Lamp Cover Ring
4 C	Lamp Screen
5 C	Bulb
6 C	Lamp Reflector
7 C	Bulb Holder
8 C	Connecting Plate
9 C	Connector
10C	Wire
11C	Stun Screw
12C	Lamp Holder Case
13C	Switch
14C	Circuit Board
15C	Battery Clamp
16C	Capacitor
17C	Diode
18C	Triode
19C	Triode
20C	Resistor
21C	Resistor
22C	Resistor
23C	Switch Lever
24C	Swivel Connector
25C	Stun Screw
26C	Stun Screw
27C	Battery Pack

***NOTE: Part numbers for Flashlight parts have an “C” suffix.
Please include this suffix when ordering replacement parts.***





Flashlight Assembly Drawing



NOTE: Part numbers for Flashlight parts have an “C” suffix.
Please include this suffix when ordering replacement parts.

